

WHAT IS CLAIMED:

1. A quick adjusting pliers device comprising:
a top jaw having a bottom handle, a slot and a series of ridges,
wherein the ridges are located around the slot;
a pin that extends through the slot;
a bottom jaw having a top handle and another opening for receiving the pin; and
an engagement element attached to the pin, wherein the engagement element engages at least one of the series of ridges in a first position, wherein the top jaw and bottom jaw pivot about a first axis that extends through a longitudinal axis of the pin, and wherein the engagement element is moveable along the first axis from the first position to a second position wherein the engagement element does not engage any of the series of ridges.
2. The quick adjusting pliers device of claim 1 wherein the series of ridges are straight.
3. The quick adjusting pliers device of claim 1 wherein the series of ridges are curved.
4. The quick adjusting pliers device of claim 1 wherein the engagement element is biased via a spring.
5. The quick adjusting pliers device of claim 1 wherein the bottom jaw can move away from the top jaw while a button on the bottom jaw is pressed.
6. The quick adjusting pliers device of claim 1 wherein the engagement element can translate along a second axis that is perpendicular to the first axis.

7. A quick adjusting pliers device comprising:
 - a top jaw having a bottom handle, a slot and a series of ridges, wherein the ridges are located around the slot;
 - a pin that extends through the slot;
 - a bottom jaw having a top handle and another opening for receiving the pin; and
 - an engagement element attached to the pin, wherein the engagement element engages at least one of the series of ridges, and wherein the bottom jaw is able to freely translate towards the top jaw when said engagement element engages the at least one of the series of ridges.
8. The quick adjusting pliers device of claim 7 wherein the series of ridges are straight.
9. The quick adjusting pliers device of claim 7 wherein the series of ridges are curved.
10. The quick adjusting pliers device of claim 7 wherein the engagement element is biased via a spring.
11. The quick adjusting pliers device of claim 7 wherein the bottom jaw can be moved away from the top jaw while a button on the bottom jaw is pressed.
12. The quick adjusting pliers device of claim 7, wherein the bottom jaw is prevented from translating away from the top jaw.
13. The quick adjusting pliers device of claim 7, wherein the engagement element fits within the slot.

14. A method of clamping an object with a quick adjusting pliers device having a pin in the quick adjusting pliers device, comprising:

(a) opening a bottom jaw and a top jaw of a quick adjusting pliers device to an initial position wherein an engagement element engages at least one ridge formed in the quick adjusting pliers device;

(b) placing an object between the bottom jaw and the top jaw;

(c) pivoting the bottom jaw and the top jaw about a first axis so as to grip the object; and

(d) moving the engagement element along the first axis so that the bottom jaw can move away from said top jaw and release the object.

15. The method of claim 14 wherein the at least one ridge is straight.

16. The method of claim 14 wherein the at least one ridge is curved.

17. The method of claim 14 further comprising the step of releasing the bottom jaw and top jaw back to the initial position.

18. The method of claim 14 wherein the engagement element is biased via a spring.

19. The quick adjusting pliers device of claim 1, wherein the engagement element fits within the slot.

20. The quick adjusting pliers device of claim 6, wherein the engagement element translates within the slot.